Table H.--Engineering Index Properties

(Absence of an entry indicates that the data were not estimated.)

Map symbol	Depth	USDA texture	Classif:	ication	Frag	Fragments   		rcentage sieve n	  Liquid	   Plas-		
and soil name	_		İ		>10	3-10	İ				limit	
			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				-l   Pct	Pct	 	 	 	 	Pct	 
GpF3:				 				 	 	<u> </u>		<u> </u>
Gilpin	0-3 3-25	Silt loam  Silt loam,   channery silty   clay loam,	CL, CL-ML, ML CL, CL-ML, GC, SC	A-4, A-6  A-4, A-6, A-	0  2	0-5	80-95  50-95 	75-90  45-90 	70-85  35-85 	65-80  30-80 	20-55 20-40	4-15   4-15 
		very channery silty clay loam	 				   	   	   	   		   
l	25-32	Channery loam,   very channery   silt loam,   very channery   silty clay	GC, GC-GM       	A-1, A-2, A-   4, A-6   	0	0-35	25-55       	20-50       	15-45       	15-40       	20-40     	4-15       
	32-36	loam  Unweathered   bedrock	 	     			   	   	   	   	   	   
Peabody	0-3 3-24	  Silt loam  Channery silty   clay, channery   silty clay	CL, CL-ML  CH, CL 	  A-4, A-6  A-6, A-7 	0 0	0   0   0		  95-100  90-100 			  25-35  35-55 	5-14  15-30 
	24-28	loam, clay   Weathered   bedrock	     	     		   	     	     	     	     	     	     
GvF:							! 					
Gilpin	0-3	Silt loam	CL, CL-ML,	A-2, A-4, A-	6 0-2	10-40	  50-90 	  45-85 	35-75	30-70	20-45	   4-15 
	3-25	Silt loam, very   channery silty   clay loam,   channery silty   clay loam	GC-GM, SC	A-2, A-4, A-   	5   0     	0-30	50-95       	45-90       	35-85       	30-80       	20-45       	4-15     
	25-32	Channery loam,   very channery   silt loam,   very channery   silty clay   loam	GC, GC-GM         	A-1, A-2, A-   4, A-5     	0       	0-35	25-55         	20-50       	15-45       	15-40       	20-45	4-15       
	32-36	Toam  Unweathered   bedrock	!   	   	 				   	   		   

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Table H.--Engineering Index Properties--Continued

Map symbol	   Depth	USDA texture	Classif:	icatio	on		Fragments			centage sieve n		   Plas-		
and soil name	 	   	   Unified 	   A <i>I</i> 	ASHTO		>10  inches  	3-10 inches	   4 	10	40	200	limit   	ticity  index 
	In						Pct	Pct				   	Pct	
Pineville	0-3	  Loam 	  CL-ML, ML,   SC-SM, SM	  A-2, 	A-4		0-2 	3-15	  55-90 	  50-85 	  45-80 	  30-75 	25-35	   4-10 
	3-56     	Channery loam,   channery clay   loam, very   channery clay   loam	CL, CL-ML,   SC, SC-SM,   GC-GM 	A-2,     	A-4,	A-6	0       	0-10	55–85     	50-80     	45-75     	30-65       	25-40     	6-15       
	56-65         	Very channery   loam, very   channery clay   loam, very   channery sandy   loam	GC-GM, GM,   SC-SM       	A-1,   4, <i>I</i>     	A-2, A-6	A-	0	5-20	35-75	30-70	25-65         	20-60	25-55	4-12         
Ha:										 				
Hackers	0-8   8-50 	Silt loam  Silt loam, clay   loam, silty   clay loam	CL, CL-ML, ML  CL, CL-ML, ML   				0   0   	0   0 			75-100  90-100 			3-12   4-18 
	50-65   	Stratified fine sandy loam to silty clay loam	CL, ML, SC, SM	A-4,     	A-6		0   	0	85-100   	60-100     	55-95     	40-85     	20-40     	1-15       
MoB:												İ		
Monongahela	0-8 	Silt loam 	CL-ML, ML, SC-SM, SM	A-4 			0	0-5	90-100 	85-100 	75-100 	45-90 	20-35	1-10 
	8 – 23   	Silt loam, clay   loam, gravelly   loam		A-4,	A-6		0	0-15	90-100	80-100   	75-100   	70-90   	20-55	5-15   
	23-65       	Silt loam,   sandy clay   loam, gravelly   loam	SM	A-4,       	A-6		0       	0-10	80-100     	60-100       	55-95       	45-95     	20-40	3-15       
Ms:		    Gilt loom	    CL, CL-ML, ML		7 6				     0	     0E 100	     00 100	   	122 40	     2 1E
Moshannon		Silt loam,   silty clay	CL, CL-ML, ML  CL, CL-ML, ML 				0   0 	0 0			90-100  90-100 		22-40   19-40 	3-15   3-15 
	   38-65     	loam  Silt loam, clay   loam, gravelly   fine sandy   loam	•	   A-4,       	A-6		   0   	0	  80-100   	  70-100     	  55-100     	  35-80     	  14-40     	   3-15     

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif:	icatio	n		Fragments		1	centage sieve n	  Liquid			
and soil name		   	   Unified 	   AA 	SHTO		>10 inches	3-10 inches	   4   	10	40	200	limit   	ticity  index 
PvE:	In						Pct	Pct			   		Pct	
Pineville	0 – 3	Loam	CL-ML, ML, SC-SM, SM	A-2,	A-4		0-2	3-15	55-90 	50-85	45-80	30-75	25-35	4-10 
	3-56	Channery loam,   channery clay   loam, very   channery clay   loam	CL, CL-ML, SC, SC-SM, GC-GM	A-2,       	A-4,	A-6	0	0-10	55-85     	50-80	45-75     	30-65	25-40	6-15     
	56-65	Very channery   loam, very   channery clay   loam, very   channery sandy   loam	GC-GM, GM,   SC-SM     	A-1,   4, A     		A-	0	5-20   	35-75       	30-70	25-65       	20-60	17-55         	4-12       
RpF3: Rock outcrop	0-60	    Bedrock 	     	     				   	   	   	   	   	     0-14	   
Peabody	0-3 3-24	Silt loam  Channery silty   clay loam,   channery silty   clay, clay		  A-4,  A-6, 			0	0   0 			85-100  80-100 	ı	25-35   35-55 	5-14  15-30 
	24-28	Weathered   bedrock		   							   			   
Gilpin	0-3 3-25	Silt loam  Channery silty   clay loam,   silt loam,   very channery   silty clay   loam	  CL, CL-ML, ML  CL, CL-ML,   GC, SC   	  A-4,  A-2,   		A-6	0   0	0-5 0-30		75-90  45-90	  70-85  35-85     	65-80  30-80	  20-55  20-40   	   4-15   4-15     
	25-32	Channery loam,   very channery   silt loam,   very channery   silty clay   loam	GC, GC-GM         	A-1,   4, A       		A-	0	0-35     	25-55       	20-50	15-45     	15-40	20-40	4-15       
	32-36	Unweathered   bedrock	 	   				   	   		   		   	   

Table H.--Engineering Index Properties--Continued

		   USDA texture	Classif:	ication	_	Fragments		rcentage sieve n		d  Plas-		
and soil name		   	   Unified 	   AASHTO 	>10  inches	3-10  inches	   4 	10	40	200	limit   	ticity  index 
Sc:	In	   			Pct	Pct		———   		 	Pct	   
Senecaville	0-5 5-32	Silt loam  Silty clay   loam, silt	CL, CL-ML, ML CL, CL-ML, ML		0 0	0 0	1	1	  75-100  85-100 	1	20-35  17-55 	3-12   4-18 
	32-65	loam  Silt loam, fine   sandy loam,   loam	  CL, ML, SC,   SM 	  A-4, A-6   	0	0-5	  90-100   	  70-100   	  65-95   	  45-90   	20-40	   1-15   
Sm:			 			 	 	 	 	 		 
Senecaville	0-5	Silt loam	CL, CL-ML, ML		0   0	0	1		75-100  85-100	I	1	3-12 4-18
	5-32	Silty clay   loam, silt	CL, CL-ML, ML	A-4, A-6		0	90-100		85-100	75-95 	17-55	4-18 
	32-65	loam  Silt loam, fine   sandy loam,   loam	  CL, ML, SC,   SM	  A-4, A-6 	   0 	   0-5 	  90-100   	  70-100 	  65-95   	  45-90 	  20-40 	   1-15 
Melvin	0-7 7-24	  Silt loam  Silt loam,   silty clay	  CL, CL-ML, ML  CL, CL-ML, ML 	1	0 0	1	1	1	  80-100  80-100 	1	1	   4-15   5-20 
I	24-65	loam  Silt loam,   silty clay   loam, loam	  CL, CL-ML, ML   	  A-4, A-6 	0	   0 	  85-100   	  80-100   	  70-100 	  60-98   	  17-60 	   5-20   
Ss:				ĺ		Ì				ļ		
Sensabaugh	0-6 6-29	Silt loam  Gravelly loam,   very gravelly   loam, gravelly   silt loam	CL, CL-ML, ML  GC, SC-SM,   GC-GM, CL,   CL-ML	A-4   A-4 , A-6   	0 0		90-100  70-95     		65-85  45-75   	1	16-29  20-35   	3-9   5-14   
	29-65	Very gravelly   loam, very   gravelly clay   loam, gravelly   fine sandy   loam	GC, GC-GM, SC, SC-SM	A-2, A-4, A-       	6 0       	5-30       	55-90         	  25-75         	  25-65       	20-55           	20-36         	6-15         

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication			ments		centage sieve n	  Liquid			
and soil name		   			нто	>10  inches 	3-10  inches	   4 	10	40	200	limit   	ticity  index 
TsB:	In					Pct	Pct					Pct	   
Tilsit	0-7 7-21	Silt loam  Silt loam,   silty clay   loam, loam	CL, CL-ML, ML  CL, CL-ML, ML 			0 0	0 0		l .	75-100  75-100 	I	l .	4-15   5-20 
	21-43	Very channery   loam, silty   clay loam,	  CL, CL-ML,   GC-GM	   A-4, A- 	-6, A-7	   0 	   0 	  90-100 	  85-100 	  75-100 	65-100	25-45	   5-25 
	43-47	channery loam Unweathered bedrock	   	   		   	   	   	   	   		   	   
Ud: Udorthents		 	 	 		 	 	 	 	 		 	 
UgC3: Upshur	0-6 6-34	  Silt loam  Silty clay,	    CL, CL-ML, ML  CH, CL, MH	    A-4, A-  A-7	-6	     0   0	     0   0			    85-100  90-100			     5-15  20-40
	34-44	clay, channery   clay  Very channery	CH, CL, MH,	    A-6, A	-7	     0	     0	    80-100	    65-100	    60-100	45-95	    35-55	    11-25
		silty clay loam, very channery silty clay, very channery clay	ML, GC       	     		     	     			     		   	     
	44-48	Weathered   bedrock	 	 		   				   			
Gilpin    	0-3 3-25	Silt loam  Channery silty   clay loam,   silt loam,   very channery   silty clay   loam	  CL, CL-ML, ML  CL, CL-ML,   GC, SC   		-6 -4, A-6	0   0   	0-5		75-90  45-90	  70-85  35-85     	65-80  30-80	17-60  20-40 	4-15   4-15       
	25-32	Channery loam,   very channery   silt loam,   very channery   silty clay   loam	GC, GC-GM	A-1, A-1   4, A-1 		0     	0-35	  25-55     	20-50	  15-45     	15-40	20-40     	4-15     
	32-36	Toam  Unweathered   bedrock 	     	     		     	   	   	   	     	 	   <b>-</b> 	   

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif:	ication		Fragments			centage sieve n		   Plas-		
and soil name		   	   Unified 	   AASHT( 	)	>10  inches 	3-10  inches	   4 	10	40	200	limit   	ticity  index 
UgD3:	In			<del></del>		Pct	Pct	<del></del>	   	   	<del></del> -	Pct	
Upshur	0-6 6-34	  Silt loam  Channery clay,   silty clay,   clay	  CL, CL-ML, ML  CH, CL, MH 	  A-4, A-6  A-7 		   0   0	   0   0			  85-100  90-100 		  17-60  45-75 	5-15  20-40 
	34-44	Very channery   silty clay   loam, very   channery silty   clay, very   channery clay	CH, CL, MH, ML, GC	A-6, A-7     		0	0     	80-100     	65-100     	60-100     	45-95     	  35-55     	  11-25     
	44-48	Weathered   bedrock	   	     		   	   	   	   	   	   	   	   
Gilpin    	0-3 3-25	Silt loam  Channery silty   clay loam,   silt loam,   very channery   silty clay   loam	CL, CL-ML, ML CL, CL-ML, GC, SC	A-4, A-6   A-2, A-4 	, A-6	0   0     	0-5   0-30 	ı	  75-90  45-90     	70-85  35-85 	65-80  30-80 	  17-60  20-40   	4-15   4-15     
	25-32	Channery loam,   Channery loam,   very channery   silt loam,   very channery   silty clay	GC, GC-GM	A-1, A-2   4, A-6 	, A-	0	0-35	25-55   	  20-50   	  15-45     	15-40   	20-40	   4-15     
	32-36	Ioan  Unweathered   bedrock 	   	   		   	 	   	   	   	   	   	   
UgE3: Upshur  	0-6 6-34	  Silt loam  Channery clay,   silty clay,   clay	  CL, CL-ML, ML  CH, CL, MH 	  A-4, A-6  A-7 		   0   0				  85-100  90-100 		  17-60  45-80 	   5-15  20-40 
	34-44	Very channery silty clay loam, very channery silty clay, very channery clay	  CH, CL, MH,   ML, GC   	  A-6, A-7     		0	0	80-100   	  65-100     	  60-100     	  45-95     	  35-55       	  11-25     
	44-48	Weathered   bedrock 	    -  -	     		     	<b></b>	<b></b> -	   	   	   	   	   

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture		Classif	icati	on		Fragm			centage sieve n	ng	  Liquid		
and soil name		   	 	Jnified	   Ai 	ASHTO		>10  inches	3-10 inches	   4 	10	40	200	limit   	ticity  index 
Gilpin	In 0-3 3-25	Silt loam   Channery silty   clay loam,   silt loam,   very channery   silty clay   loam	CL,	CL-ML, ML CL-ML, , SC		A-6 A-4,	A-6	Pct   0   0   0	Pct   0-5   0-30	80-95  50-95 	75-90  45-90 	  70-85  35-85     	65-80  30-80	Pct  17-60  20-40	   4-15   4-15   
	25-32	Channery loam, very channery silt loam, very channery silty clay loam	GC,         	GC-GM	A-1 ,   4 ,	A-2, A-6	A-	0	0-35	25-55     	20-50   	15-45       	15-40	20-40   	4-15       
I	32-36	  Unweathered   bedrock	 		 							   			
VaD: Vandalia		  Silt loam  Silty clay   loam, channery   silty clay,  Silty clay,   clay, very   channery silty   clay loam	    CH,   ML	ML CL, ML CL, MH,	   A-4,   A-6,     A-6,		A-7	0 0	0-5 0-5 0-5	75-100   	75-100  70-95    65-100		50-90  60-85  55-100		   5-20  15-30       10-30
VbD: Vandalia	0-6			CL-ML, ML			A-7					  55-75		  17-60	5-20
		Silty clay   loam, channery   silty clay  Silty clay,   clay, very   channery silty   clay loam	CL, 		A-6,       A-6, 			0-5         0-5   		75-100      70-100 		65-90      60-90 	60-85    55-85	35-55        30-55 	15-30      10-30 
W: Water	   	   	         		       			     		   		       		   	     